Refine Search

Search Results -

Terms	Documents
L17 and (access$3 same (input near table$1))	1

Database:
US Pre-Grant Publication Full-Text Database
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Search: L18

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Search History

DATE: Saturday, June 12, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L18	L17 and (access$3 same (input near table$1))	1	L18
L17	L16 and (rule$1 same cell$1)	41	L17
L16	L1 and SQL	2147	L16
L15	L3 and SQL	1	L15
L14	L13 and (access$3 same (input near table$1))	0	L14
L13	L12 and access$3	3	L13
L12	L10 and L11	5	L12
L11	"transform command"	172	L11
L10	"input table"	2115	L10
L9	L6 and L3	0	L9
L8	L5 and L3	1	L8
L7	L4 and L3	1	L7
L6	709/217-219.ccls.	5461	L6
L5	709/$.ccls.	29143	L5

h e b b cg b e e ch

L4	707/$.ccls.	20873	L4
L3	L2 and ((transform$6 or translat$4) near command)	11	L3
L2	L1 and (rule$1 same cell$1)	1675	L2
L1	(transform$6 or translat$4) same (table$1 or (row$1 or column))	113515	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L3 and SQL	1

1/1/04
6.12.4

Database:
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US Patents Full-Text Database
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Search: L15

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Saturday, June 12, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L15	L3 and SQL	1	L15
L14	L13 and (access$3 same (input near table$1))	0	L14
L13	L12 and access$3	3	L13
L12	L10 and L11	5	L12
L11	"transform command"	172	L11
L10	"input table"	2115	L10
L9	L6 and L3	0	L9
L8	L5 and L3	1	L8
L7	L4 and L3	1	L7
L6	709/217-219.ccls.	5461	L6
L5	709/$.ccls.	29143	L5
L4	707/$.ccls.	20873	L4
L3	L2 and ((transform$6 or translat$4) near command)	11	L3
L2	L1 and (rule$1 same cell$1)	1675	L2

h e b b cg b e e ch

L1	(transform$6 or translat$4) same (table$1 or (row$1 or column))	113515	L1

END OF SEARCH HISTORY

h e b b cg b e e ch

Hit List

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 6748389 B1

Using default format because multiple data bases are involved.

L15: Entry 1 of 1 File: USPT Jun 8, 2004

US-PAT-NO: 6748389
DOCUMENT-IDENTIFIER: US 6748389 B1

TITLE: Method, system, and program for inverting columns in a database table

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cesare; Mark Anthony	San Francisco	CA		
Jerves; Julie Ann	Saratoga	CA		
Mandel, III; Richard Henry	San Jose	CA		

US-CL-CURRENT: 707/100; 707/104.1, 707/4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
L3 and SQL	1

Display Format: - Change Format

Previous Page Next Page Go to Doc#

h e b b g e e e f e b g ef b e

Refine Search

Search Results -

Terms	Documents
L13 and (access$3 same (input near table$1))	0

6.12.04

Database:
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Search: L14

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Saturday, June 12, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L14	L13 and (access$3 same (input near table$1))	0	L14
L13	L12 and access$3	3	L13
L12	L10 and L11	5	L12
L11	"transform command"	172	L11
L10	"input table"	2115	L10
L9	L6 and L3	0	L9
L8	L5 and L3	1	L8
L7	L4 and L3	1	L7
L6	709/217-219.ccls.	5461	L6
L5	709/$.ccls.	29143	L5
L4	707/$.ccls.	20873	L4
L3	L2 and ((transform$6 or translat$4) near command)	11	L3
L2	L1 and (rule$1 same cell$1)	1675	L2
L1	(transform$6 or translat$4) same (table$1 or (row$1 or column))	113515	L1

h e b b cg b e e ch

END OF SEARCH HISTORY

h e b b cg b e e ch

Refine Search

Search Results -

Terms	Documents
L8 and rule$1	2

1736
6.12.4

Database:
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Search: 707/$.ccls.

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Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L9	L8 and rule$1	2	L9
L8	L6 and L7	5	L8
L7	"transform command"	172	L7
L6	"input table"	2115	L6
L5	L4 and (input same table$1)	4	L5
L4	L2 and ((transform$6 or translat$4) near command)	11	L4
L3	L2 and (rule$1 same ((transform$6 or translat$4) near command))	0	L3
L2	L1 and (rule$1 same cell$1)	1675	L2
L1	(transform$6 or translat$4) same (table$1 or (row$1 or column))	113515	L1

END OF SEARCH HISTORY

h e b b cg b e e ch

Hit List

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6748389 B1

Using default format because multiple data bases are involved.

L9: Entry 1 of 2 File: USPT Jun 8, 2004

US-PAT-NO: 6748389
DOCUMENT-IDENTIFIER: US 6748389 B1

TITLE: Method, system, and program for inverting columns in a database table

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cesare; Mark Anthony	San Francisco	CA		
Jerves; Julie Ann	Saratoga	CA		
Mandel, III; Richard Henry	San Jose	CA		

US-CL-CURRENT: 707/100; 707/104.1, 707/4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 2. Document ID: US 6604095 B1

L9: Entry 2 of 2 File: USPT Aug 5, 2003

US-PAT-NO: 6604095
DOCUMENT-IDENTIFIER: US 6604095 B1

TITLE: Method, system, program, and data structure for pivoting columns in a database table

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
L8 and rule$1	2

h e b b g e e e f e h b ef b e

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h e b b g e e e f e h b ef b e

Refine Search

Search Results -

Terms	Documents
L5 and L6	5

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Search: L7

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Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L7	L5 and L6	5	L7
L6	"transform command"	172	L6
L5	"input table"	2115	L5
L4	L3 and sql	25	L4
L3	L2 and (input near table$1)	130	L3
L2	L1 and (input same table$1)	1452	L2
L1	(transform$6 or convert$4) same table$1 same rule$1	3217	L1

END OF SEARCH HISTORY

h e b b cg b e e ch

Refine Search

Search Results -

Terms	Documents
L3 and sql	25

Database:
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Search: L4

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Search History

DATE: Friday, June 11, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L4	L3 and sql	25	L4
L3	L2 and (input near table$1)	130	L3
L2	L1 and (input same table$1)	1452	L2
L1	(transform$6 or convert$4) same table$1 same rule$1	3217	L1

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Relevance scale

1 Minimum cuts in near-linear time

David R. Karger

January 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 1

Full text available: pdf(216.17 KB) Additional Information: full citation, abstract, references, citings, index terms

We significantly improve known time bounds for solving the minimum cut problem on undirected graphs. We use a "semiduality" between minimum cuts and maximum spanning tree packings combined with our previously developed random sampling techniques. We give a randomized (Monte Carlo) algorithm that finds a minimum cut in an m-edge, n-vertex graph with high probability in O(m log3 n) time. We also give a ...

Keywords: Monte Carlo algorithm, connectivity, min-cut, optimization, tree packing

2 Semantics: The nature of near-synonymic relations

Chrysanne DiMarco

August 1994 **Proceedings of the 15th conference on Computational linguistics - Volume 2**

Full text available: pdf(450.89 KB) Additional Information: full citation, references

3 Polylog-time and near-linear work approximation scheme for undirected shortest paths

Edith Cohen

January 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 1

Full text available: pdf(311.19 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Shortest paths computations constitute one of the most fundamental network problems. Nonetheless, known parallel shortest-paths algorithms are generally inefficient: they perform significantly more work (product of time and processors) than their sequential counterparts. This gap, known in the literature as the "transitive closure bottleneck," poses a long-standing open problem. Our main result is an $Omn^{e0}+s$

4 Parallel processing of near fine grain tasks using static scheduling on OSCAR (Optimally Scheduled Advanced Multiprocessor)

Hironori Kasahara, Hiroki Honda, Seinosuke Narita

h c g e cf c

November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references

This paper proposes a compilation scheme for parallel processing of near fine grain tasks, each of which consists of several instructions or a statement, on a multiprocessor system called OSCAR (Optimally Scheduled Advanced Multiprocessor). The scheme allows us to minimize synchronization and data transfer overheads and to optimally use registers of each processor by using a static scheduling algorithm considering data transfer. This scheme can effectively be combined with macro-dataflow computa ...

5 Algorithms for near-rings of non-linear transformations

Franz Binder, Erhard Aichinger, Jürgen Ecker, Christof Nöbauer, Peter Mayr

July 2000 **Proceedings of the 2000 international symposium on Symbolic and algebraic computation symbolic and algebraic computation**

Full text available: pdf(183.54 KB) Additional Information: full citation, abstract, references, index terms

In this note we present some algorithms to deal with nearrings, the appropriate algebraic structure to study non-linear functions. This is similar the role of rings in the theory of linear functions or that of groups for permutations. In particular, we give efficient algorithms that deal with big nearrings that are given by a small set of generators. In this context, generating involves composition as well as point-wise addition. In the extreme case, one transformation of a group of order < ...

Keywords: groups, near-rings, non-linear transformations

6 A Survey of Methods of Computing Minimax and Near-Minimax Polynomial Approximations for Functions of a Single Independent Variable

W. Fraser

July 1965 **Journal of the ACM (JACM)**, Volume 12 Issue 3

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

Methods are described for the derivation of minimax and near-minimax polynomial approximations. For minimax approximations techniques are considered for both analytically defined functions and functions defined by a table of values. For near-minimax approximations methods of determining the coefficients of the Fourier-Chebyshev expansion are first described. These consist of the rearrangement of the coefficients of a power polynomial, and also direct determination of the coefficients from t ...

7 Near perfect hash table for image databases

Sanjiv K. Bhatia, Chaman L. Sabharwal

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(572.57 KB) Additional Information: full citation, references, index terms

Keywords: 2D string, hash table, image database indexing

8 Near-complete decomposability of queueing networks with clusters of strongly interacting servers

Hendrik T. Vantilborgh, Richard L. Garner, Edward D. Lazowska

May 1980 **Proceedings of the 1980 international symposium on Computer performance modelling, measurement and evaluation**

Full text available: pdf(650.92 KB) Additional Information: full citation, abstract, references, index terms

The near-complete decomposability of queueing network models of computer systems is generally supported by very large differences in the service rates of the servers. In this paper we show how such models may still be nearly completely decomposable if on the one hand these large differences can no longer be realistically assumed (as is the case, for example, in computer networks) but if on the other hand clusters of strongly interacting servers exist. Our results may be viewed as ...

9 Automatic generation of near-optimal linear-time translators for non-circular attribute grammars

Rina Cohen, Eli Harry

January 1979 **Proceedings of the 6th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings

Attribute grammars are an extension of context-free grammars devised by Knuth as a formalism for specifying the semantics of a context-free language along with the syntax of the language. The syntactic phase of the translation process has been extensively studied and many techniques are available for automatically generating efficient parsers for context-free grammars. Attribute grammars offer the prospect of similarly automating the implementation of the semantic phase. In this paper we present ...

10 Research track: Mining distance-based outliers in near linear time with randomization and a simple pruning rule

Stephen D. Bay, Mark Schwabacher

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(220.95 KB) Additional Information: full citation, abstract, references, index terms

Defining outliers by their distance to neighboring examples is a popular approach to finding unusual examples in a data set. Recently, much work has been conducted with the goal of finding fast algorithms for this task. We show that a simple nested loop algorithm that in the worst case is quadratic can give near linear time performance when the data is in random order and a simple pruning rule is used. We test our algorithm on real high-dimensional data sets with millions of examples and show th ...

Keywords: anomaly detection, diskbased algorithms, distance-based operations, outliers

11 Numerical issues and robustness: Near-optimal parameterization of the intersection of quadrics

Laurent Dupont, Daniel Lazard, Sylvain Lazard, Sylvain Petitjean

June 2003 **Proceedings of the nineteenth conference on Computational geometry**

Full text available: pdf(322.08 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present the first exact, robust and practical method for computing an explicit representation of the intersection of two arbitrary quadrics whose coefficients are rational. Combining results from the theory of quadratic forms, linear algebra and number theory, we show how to obtain parametric intersection curves that are near-optimal in the number and depth of radicals involved.

Keywords: quadric surface intersection, robustness of geometric computations

12 Near-synonymy and lexical choice

Philip Edmonds, Graeme Hirst

June 2002 **Computational Linguistics**, Volume 28 Issue 2

h c g e cf c

Additional Information: full citation, abstract, references, citings, index terms

We develop a new computational model for representing the fine-grained meanings of near-synonyms and the differences between them. We also develop a lexical-choice process that can decide which of several near-synonyms is most appropriate in a particular situation. This research has direct applications in machine translation and text generation.We first identify the problems of representing near-synonyms in a computational lexicon and show that no previous model adequately accounts for near-syno ...

13 Retransmission control and fairness issue in mobile slotted ALOHA networks with fading and near-far effect

Te-Kai Liu, John A. Silvester, Andreas Polydoros

June 1997 **Mobile Networks and Applications**, Volume 2 Issue 1

Full text available: pdf(393.02 KB) Additional Information: full citation, abstract, references, index terms

The effects of different retransmission control policies on the performance of a mobile data system employing the slotted ALOHA protocol are investigated, with the emphasis on the unfairness between close-in and distant users due to the near-far effect. An analytical multi-group model is developed to evaluate both the user and the network performance of the mobile slotted ALOHA network under two classes of retransmission control policies, namely the Uniform Policy and the Nonuniform Policy. ...

14 Optimization of a cycle time and utilization in semiconductor test manufacturing using simulation based, on-line, near-real-time scheduling system

Appa Iyer Sivakumar

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1**

Full text available: pdf(142.30 KB) Additional Information: full citation, abstract, references, citings, index terms

15 Efficiency of a Procedure for Near-Minimax Approximation

L. F. Shampine

October 1970 **Journal of the ACM (JACM)**, Volume 17 Issue 4

Full text available: pdf(275.13 KB) Additional Information: full citation, abstract, references, citings, index terms

A procedure using the minimax polynomial fit of degree n on the set of extrema of the Chebyshev polynomial Tn+1 is examined for its effectiveness in generating near-minimax fits on [-1, 1]. It is compared to Powell's results for interpolation at the zeros of Tn.

16 Path optimization and near-greedy analysis for graph partitioning: an empirical study

Jonathan Berry, Mark Goldberg

January 1995 **Proceedings of the sixth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.12 MB) Additional Information: full citation, references, index terms

17 Some Comments On EQS, A Near Term Natural Language Data Base Query System

William A. Martin

December 1978 **Proceedings of the 1978 annual conference**

Full text available: pdf(665.01 KB) Additional Information: full citation, abstract, references, citings, index terms

Problems and possibilities for near term natural language query systems are discussed, with

emphasis on the author's own system, EQS. First, the general objectives for near term systems in the areas of syntax, world knowledge, discourse, and problem solving are considered. Next, a comparison is made between the ATN parsing strategies in LADDER, ROBOT, PLANES, and EQS. Evidence for the importance of giving answers to queries not directly available in the data base is given together with some ...

Keywords: Data base query, Natural language, Semantic data models, Semantic networks

18 A fast fanout optimization algorithm for near-continuous buffer libraries

David S. Kung

May 1998 **Proceedings of the 35th annual conference on Design automation conference**

Full text available: pdf(186.04 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a gain-based fanout optimization algorithm for near-continuous buffer libraries. A near-continuous buffer library contains many buffers in a wide range of discrete sizes and each buffer of a specific type satisfies a size-independent delay equation. The new fanout algorithm is derived from an optimal algorithm to a special fanout optimization problem for continuous libraries. The gain-based technique constructs fanout trees which have better timing at similar area cost. ...

Keywords: fanout optimization, gate-sizing, logic synthesis

19 Implications of near-real-time three-dimensional interfaces

Steve Bryson

December 1996 **ACM Computing Surveys (CSUR)**

Full text available: html(9.62 KB) Additional Information: full citation

20 Applications: Near-optimal adaptive control of a large grid application

Det Buaklee, Gregory F. Tracy, Mary K. Vernon, Stephen J. Wright

June 2002 **Proceedings of the 16th international conference on Supercomputing**

Full text available: pdf(251.23 KB) Additional Information: full citation, abstract, references, index terms

This paper develops a performance model that is used to control the adaptive execution the ATR code for solving large stochastic optimization problems on computational grids. A detailed analysis of the execution characteristics of ATR is used to construct the performance model that is then used to specify (a) near-optimal dynamic values of parameters that govern the distribution of work, and (b) a new task scheduling algorithm. Together, these new features minimize ATR execution time on any coll ...

Keywords: adaptive computations, grid computing, parallel algorithms, parallel application performance, stochastic optimization

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21 Beyond numbers and demographics: "experience-near" explorations of the digital divide

September 2001 **ACM SIGCAS Computers and Society**, Volume 31 Issue 3

Full text available: pdf(529.91 KB) Additional Information: full citation, references, index terms, review

22 Minimum cuts in near-linear time

David R. Karger

July 1996 **Proceedings of the twenty-eighth annual ACM symposium on Theory of computing**

Full text available: pdf(899.60 KB) Additional Information: full citation, references, citings, index terms

23 Near-optimal multiprocessor scheduling

Farideh A. Samadzadeh, G. E. Hedrick

April 1992 **Proceedings of the 1992 ACM annual conference on Communications**

Full text available: pdf(822.29 KB) Additional Information: full citation, abstract, references, citings, index terms

Problems in employing several processors to execute a program can be identified as: a) discovering the potential parallelism of execution in different portions of the same program, and b) scheduling of the resulting task system. This research concentrates on the latter problem. More specifically, this research focuses on designing graph-based scheduling algorithms that produce near-optimal schedules using task system graphs. It is possible for the tasks in a task system to be completely dis ...

24 Near-Optimal Precharging in High-Performance Nanoscale CMOS Caches

Se-Hyun Yang, Babak Falsafi

December 2003 **Proceedings of the 36th Annual IEEE/ACM International Symposium on Microarchitecture**

Full text available: pdf(206.92 KB) Publisher Site Additional Information: full citation, abstract

High-performance caches statically pull up the bit-linesin all cache subarrays to optimize cache accesslatency. Unfortunately, such an architecture results in asignificant waste of

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energy in nanoscale CMOS implementationsdue to high leakage and bitline discharge inthe unaccessed subarrays. Recent research advocatesbitline isolation to control precharging of individualsubarrays using bitline precharge devices. In this paper,we carefully evaluate the energy and performancetrade-offs of bitline iso ...

25 Near-term distributed simulation of apparel manufacturing
Roy P. Pargas, John C. Peck, Prashant K. Khambekar, Satish K. Dharmaraj
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Full text available: pdf(595.53 KB) Additional Information: full citation, references, index terms

26 Evaluation of electromagnetic power deposition in a spherical multilayer head in the near field of a linear antenna
Graziano Cerri, Roberto De Leo, Giacomo Rosellini
November 1997 **Wireless Networks**, Volume 3 Issue 6
Full text available: pdf(848.96 KB) Additional Information: full citation, abstract, references, index terms

The canonical problem of the radiation of an elementary dipole close to a stratified sphere representing a simplified model of human head is investigated in this paper. The proposed approach is a flexible method of investigation about the influence on Specific Absorption Rate (S.A.R.) evaluation of tissue dielectric parameters and geometry as well as a useful tool to test numerical codes. The solution of the electromagnetic (e.m.) problem is achieved in a closed form; results highlight the ...

27 A near-linear area bound for drawing binary trees
Timothy M. Chan
January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**
Full text available: pdf(735.14 KB) Additional Information: full citation, references, index terms

28 Finding near-optimal cuts: an empirical evaluation
Kevin Lang, Satish Rao
January 1993 **Proceedings of the fourth annual ACM-SIAM Symposium on Discrete algorithms**
Full text available: pdf(1.79 MB) Additional Information: full citation, references, citings, index terms

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Relevance scale

1 Minimum cuts in near-linear time

David R. Karger

January 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 1

Full text available: pdf(216.17 KB) Additional Information: full citation, abstract, references, citings, index terms

We significantly improve known time bounds for solving the minimum cut problem on undirected graphs. We use a "semiduality" between minimum cuts and maximum spanning tree packings combined with our previously developed random sampling techniques. We give a randomized (Monte Carlo) algorithm that finds a minimum cut in an m-edge, n-vertex graph with high probability in O(m log3 n) time. We also give a ...

Keywords: Monte Carlo algorithm, connectivity, min-cut, optimization, tree packing

2 Semantics: The nature of near-synonymic relations

Chrysanne DiMarco

August 1994 **Proceedings of the 15th conference on Computational linguistics - Volume 2**

Full text available: pdf(450.89 KB) Additional Information: full citation, references

3 Polylog-time and near-linear work approximation scheme for undirected shortest paths

Edith Cohen

January 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 1

Full text available: pdf(311.19 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Shortest paths computations constitute one of the most fundamental network problems. Nonetheless, known parallel shortest-paths algorithms are generally inefficient: they perform significantly more work (product of time and processors) than their sequential counterparts. This gap, known in the literature as the "transitive closure bottleneck," poses a long-standing open problem. Our main result is an $Omn^{e0}+s$

4 Parallel processing of near fine grain tasks using static scheduling on OSCAR (Optimally Scheduled Advanced Multiprocessor)

Hironori Kasahara, Hiroki Honda, Seinosuke Narita

h c g e cf c

November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references

This paper proposes a compilation scheme for parallel processing of near fine grain tasks, each of which consists of several instructions or a statement, on a multiprocessor system called OSCAR (Optimally Scheduled Advanced Multiprocessor). The scheme allows us to minimize synchronization and data transfer overheads and to optimally use registers of each processor by using a static scheduling algorithm considering data transfer. This scheme can effectively be combined with macro-dataflow computa ...

5 Algorithms for near-rings of non-linear transformations

Franz Binder, Erhard Aichinger, Jürgen Ecker, Christof Nöbauer, Peter Mayr

July 2000 **Proceedings of the 2000 international symposium on Symbolic and algebraic computation symbolic and algebraic computation**

Full text available: pdf(183.54 KB) Additional Information: full citation, abstract, references, index terms

In this note we present some algorithms to deal with nearrings, the appropriate algebraic structure to study non-linear functions. This is similar the role of rings in the theory of linear functions or that of groups for permutations. In particular, we give efficient algorithms that deal with big nearrings that are given by a small set of generators. In this context, generating involves composition as well as point-wise addition. In the extreme case, one transformation of a group of order < ...

Keywords: groups, near-rings, non-linear transformations

6 A Survey of Methods of Computing Minimax and Near-Minimax Polynomial Approximations for Functions of a Single Independent Variable

W. Fraser

July 1965 **Journal of the ACM (JACM)**, Volume 12 Issue 3

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

Methods are described for the derivation of minimax and near-minimax polynomial approximations. For minimax approximations techniques are considered for both analytically defined functions and functions defined by a table of values. For near-minimax approximations methods of determining the coefficients of the Fourier-Chebyshev expansion are first described. These consist of the rearrangement of the coefficients of a power polynomial, and also direct determination of the coefficients from t ...

7 Near perfect hash table for image databases

Sanjiv K. Bhatia, Chaman L. Sabharwal

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(572.57 KB) Additional Information: full citation, references, index terms

Keywords: 2D string, hash table, image database indexing

8 Near-complete decomposability of queueing networks with clusters of strongly interacting servers

Hendrik T. Vantilborgh, Richard L. Garner, Edward D. Lazowska

May 1980 **Proceedings of the 1980 international symposium on Computer performance modelling, measurement and evaluation**

Full text available: pdf(650.92 KB) Additional Information: full citation, abstract, references, index terms

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The near-complete decomposability of queueing network models of computer systems is generally supported by very large differences in the service rates of the servers. In this paper we show how such models may still be nearly completely decomposable if on the one hand these large differences can no longer be realistically assumed (as is the case, for example, in computer networks) but if on the other hand clusters of strongly interacting servers exist. Our results may be viewed as ...

9 Automatic generation of near-optimal linear-time translators for non-circular attribute grammars

Rina Cohen, Eli Harry

January 1979 **Proceedings of the 6th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings

Attribute grammars are an extension of context-free grammars devised by Knuth as a formalism for specifying the semantics of a context-free language along with the syntax of the language. The syntactic phase of the translation process has been extensively studied and many techniques are available for automatically generating efficient parsers for context-free grammars. Attribute grammars offer the prospect of similarly automating the implementation of the semantic phase. In this paper we present ...

10 Research track: Mining distance-based outliers in near linear time with randomization and a simple pruning rule

Stephen D. Bay, Mark Schwabacher

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(220.95 KB) Additional Information: full citation, abstract, references, index terms

Defining outliers by their distance to neighboring examples is a popular approach to finding unusual examples in a data set. Recently, much work has been conducted with the goal of finding fast algorithms for this task. We show that a simple nested loop algorithm that in the worst case is quadratic can give near linear time performance when the data is in random order and a simple pruning rule is used. We test our algorithm on real high-dimensional data sets with millions of examples and show th ...

Keywords: anomaly detection, diskbased algorithms, distance-based operations, outliers

11 Numerical issues and robustness: Near-optimal parameterization of the intersection of quadrics

Laurent Dupont, Daniel Lazard, Sylvain Lazard, Sylvain Petitjean

June 2003 **Proceedings of the nineteenth conference on Computational geometry**

Full text available: pdf(322.08 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present the first exact, robust and practical method for computing an explicit representation of the intersection of two arbitrary quadrics whose coefficients are rational. Combining results from the theory of quadratic forms, linear algebra and number theory, we show how to obtain parametric intersection curves that are near-optimal in the number and depth of radicals involved.

Keywords: quadric surface intersection, robustness of geometric computations

12 Near-synonymy and lexical choice

Philip Edmonds, Graeme Hirst

June 2002 **Computational Linguistics**, Volume 28 Issue 2

h c g e cf c

Additional Information: full citation, abstract, references, citings, index terms

We develop a new computational model for representing the fine-grained meanings of near-synonyms and the differences between them. We also develop a lexical-choice process that can decide which of several near-synonyms is most appropriate in a particular situation. This research has direct applications in machine translation and text generation.We first identify the problems of representing near-synonyms in a computational lexicon and show that no previous model adequately accounts for near-syno ...

13 Retransmission control and fairness issue in mobile slotted ALOHA networks with fading and near-far effect

Te-Kai Liu, John A. Silvester, Andreas Polydoros

June 1997 **Mobile Networks and Applications**, Volume 2 Issue 1

Full text available: pdf(393.02 KB) Additional Information: full citation, abstract, references, index terms

The effects of different retransmission control policies on the performance of a mobile data system employing the slotted ALOHA protocol are investigated, with the emphasis on the unfairness between close-in and distant users due to the near-far effect. An analytical multi-group model is developed to evaluate both the user and the network performance of the mobile slotted ALOHA network under two classes of retransmission control policies, namely the Uniform Policy and the Nonuniform Policy. ...

14 Optimization of a cycle time and utilization in semiconductor test manufacturing using simulation based, on-line, near-real-time scheduling system

Appa Iyer Sivakumar

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1**

Full text available: pdf(142.30 KB) Additional Information: full citation, abstract, references, citings, index terms

15 Efficiency of a Procedure for Near-Minimax Approximation

L. F. Shampine

October 1970 **Journal of the ACM (JACM)**, Volume 17 Issue 4

Full text available: pdf(275.13 KB) Additional Information: full citation, abstract, references, citings, index terms

A procedure using the minimax polynomial fit of degree n on the set of extrema of the Chebyshev polynomial Tn+1 is examined for its effectiveness in generating near-minimax fits on [-1, 1]. It is compared to Powell's results for interpolation at the zeros of Tn.

16 Path optimization and near-greedy analysis for graph partitioning: an empirical study

Jonathan Berry, Mark Goldberg

January 1995 **Proceedings of the sixth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.12 MB) Additional Information: full citation, references, index terms

17 Some Comments On EQS, A Near Term Natural Language Data Base Query System

William A. Martin

December 1978 **Proceedings of the 1978 annual conference**

Full text available: pdf(665.01 KB) Additional Information: full citation, abstract, references, citings, index terms

Problems and possibilities for near term natural language query systems are discussed, with

emphasis on the author's own system, EQS. First, the general objectives for near term systems in the areas of syntax, world knowledge, discourse, and problem solving are considered. Next, a comparison is made between the ATN parsing strategies in LADDER, ROBOT, PLANES, and EQS. Evidence for the importance of giving answers to queries not directly available in the data base is given together with some ...

Keywords: Data base query, Natural language, Semantic data models, Semantic networks

18 A fast fanout optimization algorithm for near-continuous buffer libraries

David S. Kung

May 1998 **Proceedings of the 35th annual conference on Design automation conference**

Full text available: pdf(186.04 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a gain-based fanout optimization algorithm for near-continuous buffer libraries. A near-continuous buffer library contains many buffers in a wide range of discrete sizes and each buffer of a specific type satisfies a size-independent delay equation. The new fanout algorithm is derived from an optimal algorithm to a special fanout optimization problem for continuous libraries. The gain-based technique constructs fanout trees which have better timing at similar area cost. ...

Keywords: fanout optimization, gate-sizing, logic synthesis

19 Implications of near-real-time three-dimensional interfaces

Steve Bryson

December 1996 **ACM Computing Surveys (CSUR)**

Full text available: html(9.62 KB) Additional Information: full citation

20 Applications: Near-optimal adaptive control of a large grid application

Det Buaklee, Gregory F. Tracy, Mary K. Vernon, Stephen J. Wright

June 2002 **Proceedings of the 16th international conference on Supercomputing**

Full text available: pdf(251.23 KB) Additional Information: full citation, abstract, references, index terms

This paper develops a performance model that is used to control the adaptive execution the ATR code for solving large stochastic optimization problems on computational grids. A detailed analysis of the execution characteristics of ATR is used to construct the performance model that is then used to specify (a) near-optimal dynamic values of parameters that govern the distribution of work, and (b) a new task scheduling algorithm. Together, these new features minimize ATR execution time on any coll ...

Keywords: adaptive computations, grid computing, parallel algorithms, parallel application performance, stochastic optimization

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21 Beyond numbers and demographics: "experience-near" explorations of the digital divide

September 2001 **ACM SIGCAS Computers and Society**, Volume 31 Issue 3

Full text available: pdf(529.91 KB) Additional Information: full citation, references, index terms, review

22 Minimum cuts in near-linear time

David R. Karger

July 1996 **Proceedings of the twenty-eighth annual ACM symposium on Theory of computing**

Full text available: pdf(899.60 KB) Additional Information: full citation, references, citings, index terms

23 Near-optimal multiprocessor scheduling

Farideh A. Samadzadeh, G. E. Hedrick

April 1992 **Proceedings of the 1992 ACM annual conference on Communications**

Full text available: pdf(822.29 KB) Additional Information: full citation, abstract, references, citings, index terms

Problems in employing several processors to execute a program can be identified as: a) discovering the potential parallelism of execution in different portions of the same program, and b) scheduling of the resulting task system. This research concentrates on the latter problem. More specifically, this research focuses on designing graph-based scheduling algorithms that produce near-optimal schedules using task system graphs. It is possible for the tasks in a task system to be completely dis ...

24 Near-Optimal Precharging in High-Performance Nanoscale CMOS Caches

Se-Hyun Yang, Babak Falsafi

December 2003 **Proceedings of the 36th Annual IEEE/ACM International Symposium on Microarchitecture**

Full text available: pdf(206.92 KB) Publisher Site Additional Information: full citation, abstract

High-performance caches statically pull up the bit-linesin all cache subarrays to optimize cache accesslatency. Unfortunately, such an architecture results in asignificant waste of

h c g e cf e f g h

energy in nanoscale CMOS implementationsdue to high leakage and bitline discharge inthe unaccessed subarrays. Recent research advocatesbitline isolation to control precharging of individualsubarrays using bitline precharge devices. In this paper,we carefully evaluate the energy and performancetrade-offs of bitline iso ...

25 Near-term distributed simulation of apparel manufacturing
Roy P. Pargas, John C. Peck, Prashant K. Khambekar, Satish K. Dharmaraj
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Full text available: pdf(595.53 KB) Additional Information: full citation, references, index terms

26 Evaluation of electromagnetic power deposition in a spherical multilayer head in the near field of a linear antenna
Graziano Cerri, Roberto De Leo, Giacomo Rosellini
November 1997 **Wireless Networks**, Volume 3 Issue 6
Full text available: pdf(848.96 KB) Additional Information: full citation, abstract, references, index terms

The canonical problem of the radiation of an elementary dipole close to a stratified sphere representing a simplified model of human head is investigated in this paper. The proposed approach is a flexible method of investigation about the influence on Specific Absorption Rate (S.A.R.) evaluation of tissue dielectric parameters and geometry as well as a useful tool to test numerical codes. The solution of the electromagnetic (e.m.) problem is achieved in a closed form; results highlight the ...

27 A near-linear area bound for drawing binary trees
Timothy M. Chan
January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**
Full text available: pdf(735.14 KB) Additional Information: full citation, references, index terms

28 Finding near-optimal cuts: an empirical evaluation
Kevin Lang, Satish Rao
January 1993 **Proceedings of the fourth annual ACM-SIAM Symposium on Discrete algorithms**
Full text available: pdf(1.79 MB) Additional Information: full citation, references, citings, index terms

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1 **A scheme of fuzzy training and learning applied to Elebike control system**
Ping-Ho Chen;
Fuzzy Systems, 2000. FUZZ IEEE 2000. The Ninth IEEE International Confere on , Volume: 2 , 7-10 May 2000
Pages:810 - 816 vol.2

[Abstract] [PDF Full-Text (256 KB)] **IEEE CNF**

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